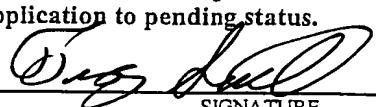


JC07 Rec'd PCT/PTO 31 MAR 2005

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| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A FILING UNDER 35 U.S.C. 371</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                              | ATTORNEY'S DOCKET NUMBER<br>3799.1011-000<br><br>U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br><b>10/530002</b> |
| INTERNATIONAL APPLICATION NO.<br>PCT/EP2003/010906                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | INTERNATIONAL FILING DATE<br>02 October 2003<br>(02.10.2003) | EARLIEST PRIORITY DATE CLAIMED<br>04 October 2002<br>(04.10.2002)                                                    |
| TITLE OF INVENTION<br>Proton Conducting Polymer Membrane Comprising Phosphonic Acid Groups Containing Polyazoles and the Use Thereof in Fuel Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                              |                                                                                                                      |
| APPLICANT(S) FOR DO/EO/US<br>Oemer Uensal, Joachim Kiefer, Gordon Calundann, Michael Sansone, Brian Benicewicz and Eui Wong Choe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                              |                                                                                                                      |
| <p>Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:</p> <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).             <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> <p><b>Items 11 to 20 below concern document(s) or information included:</b></p> <ol style="list-style-type: none"> <li>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98, PTO-1449 (3 pages), copy of International Search Report, and cited references.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input checked="" type="checkbox"/> A preliminary amendment.</li> <li>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13<sup>ter</sup>.2 and 37 CFR 1.821 - 1.825.</li> <li>18. <input checked="" type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input checked="" type="checkbox"/> Other items or information: Notification of the Recording of a Change (PCT/IB/306) (2).</li> </ol> |                                                              |                                                                                                                      |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |                                                                               |                                                                                                                                                             |                                                  |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------|
| U.S. APPLICATION NO. (If known, see 37 CFR 1.53) <b>10/530002</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              | INTERNATIONAL APPLICATION NO. <b>PCT/EP2003/010906</b>                        |                                                                                                                                                             | ATTORNEY'S DOCKET NUMBER<br><b>3799.1011-000</b> |               |
| The following fees have been submitted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                                                               |                                                                                                                                                             | CALCULATIONS                                     | PTO USE ONLY  |
| 21. <input checked="" type="checkbox"/> Basic national fee .....                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                                                                               |                                                                                                                                                             | \$300.00                                         | \$ 300        |
| 22. <input checked="" type="checkbox"/> Examination fee                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |                                                                               |                                                                                                                                                             |                                                  |               |
| If International preliminary examination report prepared by USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) .....                                                                                                                                                                                                                                                                                                                                                                                           |              |                                                                               |                                                                                                                                                             | \$100.00                                         |               |
| All other situations .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                                               |                                                                                                                                                             | \$200.00                                         | \$ 200        |
| 23. <input checked="" type="checkbox"/> Search fee                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                                                                               |                                                                                                                                                             |                                                  |               |
| Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority .....                                                                                                                                                                                                                                                                                                                                                                                      |              |                                                                               |                                                                                                                                                             | \$100.00                                         |               |
| International Search Report prepared and provided to the Office .....                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |                                                                               |                                                                                                                                                             | \$400.00                                         |               |
| All other situations .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                                               |                                                                                                                                                             | \$500.00                                         | \$ 400        |
| <b>TOTAL OF 21, 22 and 23 =</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |                                                                               |                                                                                                                                                             |                                                  | <b>\$ 900</b> |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.                                                                                                                                                                                                                                                     |              |                                                                               |                                                                                                                                                             |                                                  |               |
| Total Sheets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Extra sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE                                                                                                                                                        |                                                  |               |
| - 100 =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | /50 =        |                                                                               | x \$250.00                                                                                                                                                  | \$                                               |               |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).                                                                                                                                                                                                                                                                                                                                                                                   |              |                                                                               |                                                                                                                                                             | \$                                               |               |
| CLAIMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | NUMBER FILED | NUMBER EXTRA                                                                  | RATE                                                                                                                                                        |                                                  |               |
| Total claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 30 - 20 =    | 10                                                                            | x \$50.00                                                                                                                                                   | \$ 500                                           |               |
| Independent claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2 - 3 =      | 0                                                                             | x \$200.00                                                                                                                                                  | \$ 0                                             |               |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                                                                               | + \$360.00                                                                                                                                                  | \$                                               |               |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |                                                                               |                                                                                                                                                             | <b>\$1400</b>                                    |               |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.                                                                                                                                                                                                                                                                                                                                                                                                                 |              |                                                                               |                                                                                                                                                             | \$                                               |               |
| <b>SUBTOTAL =</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                                                                               |                                                                                                                                                             | <b>\$1400</b>                                    |               |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).                                                                                                                                                                                                                                                                                                                                                                              |              |                                                                               |                                                                                                                                                             | +                                                | \$            |
| <b>TOTAL NATIONAL FEE =</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                                                                               |                                                                                                                                                             | <b>\$1400</b>                                    |               |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property                                                                                                                                                                                                                                                                                                                                                         |              |                                                                               |                                                                                                                                                             | +                                                | \$            |
| <b>TOTAL FEES ENCLOSED =</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |                                                                               |                                                                                                                                                             | <b>\$</b>                                        |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |                                                                               |                                                                                                                                                             | Amount to be refunded:                           | \$            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |                                                                               |                                                                                                                                                             | Amount to be charged:                            | \$            |
| a. <input checked="" type="checkbox"/> A check in the amount of \$1400 to cover the above fees is enclosed.<br>b. <input type="checkbox"/> Please charge my Deposit Account No. 08-0380 in the amount of \$[ ] to cover the above fees. A duplicate copy of this sheet is enclosed.<br>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 08-0380. A duplicate copy of this sheet is enclosed. |              |                                                                               |                                                                                                                                                             |                                                  |               |
| <b>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</b>                                                                                                                                                                                                                                                                                                          |              |                                                                               |                                                                                                                                                             |                                                  |               |
| SEND ALL CORRESPONDENCE TO:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                                                                               |                                                                                                                                                             |                                                  |               |
| Customer No. 021005<br>HAMILTON, BROOK, SMITH & REYNOLDS, P.C.<br>530 Virginia Road<br>P.O. Box 9133<br>Concord, MA 01742-9133                                                                                                                                                                                                                                                                                                                                                                                                 |              |                                                                               | <br>SIGNATURE<br>Troy S. Svihl<br>NAME<br>55,845<br>REGISTRATION NUMBER |                                                  |               |

**10/530002**

**JC17 Rec'd PCT/PTO 31 MAR 2005**

IN THE UNITED STATES RECEIVING OFFICE (RO/US)  
Designated/Elected Office (DO/EO/US)

U.S. National Stage of

International Application No.: PCT/EP2003/010906

International Filing Date: 02 October 2003

Earliest Priority Date Claimed: 04 October 2002

Applicants: Oemer Uensal, Joachim Kiefer, Gordon Calundann,  
Michael Sansone, Brian Benicewicz and Eui Wong Choe

Title: Proton Conducting Polymer Membrane Comprising  
Phosphonic Acid Groups Containing Polyazoles and the  
Use Thereof in Fuel Cells

Attorney's Docket No.: 3799.1011-000

Date: 31 March 2005

EXPRESS MAIL LABEL NO. EV214894998US